

Update on Expert Groups On-going and planned activities

Ioannis Theologitis, ENTSO-E

11th Grid Connection European Stakeholder
Committee Meeting

14 September 2018, Brussels

Change of name according to the ToR of the EGs

Update on Technical Groups On-going and planned activities

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Technical Groups

- High Penetration
 - Compliance Monitoring
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Technical Group on High Penetration (TG HP)

- Volunteers from 6 stakeholder groups:
 - TSOs: 2 Representatives
 - Wind Manufacturing Industry: 4 Representatives
 - HVDC Manufacturing Industry: 2 Representatives
 - PV Manufacturing Industry: 1 Representative
 - Power System Analysis tool providers/Consultants: 2 Representatives
 - Academia: 2 Representatives
- Stage 2 (2017 – 2019): High Penetration (HP)
Longer term analysis and input into issues of extreme high penetration
- Is currently working on a joint report on grid forming capabilities
 - Contribution for setting up requirements on grid forming capabilities in future grid/network codes
- Inputs:
 - Links to research projects e.g. Migrate and Osmose
 - Projects with focus grid forming were already collected
 - Liaison with EG hosted by National Grid

Release draft report for consultation possibly end of 2018.

Technical Group on compliance monitoring (TG CM)

- Total ≈ 25 experts from 22 companies
 - Stakeholder groups represented in EG: Turbine manufacturing industry, wind manufacturing industry, co-generation industry, engineering and certification bodies, utility companies, energy suppliers, DSO association, consultant companies, standardization entities,...
- (list to be refined)*

Status of work:

- The joint team - CENELEC/WG3 and ENTSO-E/EG CM – met end of April
- Deliverable: EN50549-10 report
- Possible adaptations to IGD on Compliance Monitoring
- If required EG CM will have own meetings (none planned yet)
- Experts from the EG CM were advised to join WG3 of CENELEC for easier access to the materials
- Future updates can be done jointly by CENELEC/ENTSO-E to the GC ESC

Next meeting under preparation

Monitoring of non-exhaustive requirements

Monitoring Excel File – Active Library



Nothing to read from here

But from here:

<https://docs.entsoe.eu/cnc-al/>

- The RfG list is almost fully complete with all the non-exhaustive parameters under approval or approved
- DCC and HVDC deadlines for submitting the non-exhaustive are in September 2018 and therefore more complete information are planned to be shared in the coming weeks.

Overview of planning

 Process for drafting proposal
 Public Consultation
 TSO deadline for submitting proposals

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Tentative dates from doodle results

- **Expert Group on Pump Storage Hydro**
 - 15 October 2018, 11:00-16:00 (tentative), kick off meeting, ENTSO-E
 - 13 November 2018, 14:00-16:00 (tentative), webinar
 - 10 December 2018, 14:00-16:00 (tentative), webinar
- **Expert Group on Identification of storage devices**
 - 15 October 2018, 11:00-16:00 (tentative), kick off meeting, ENTSO-E
 - 23 November 2018, 13:00-15:00 (tentative), webinar
 - 20 December 2018, 11:00-13:00 (tentative), webinar
- **Expert Group on Mixed Customer Sites**
 - 19 October 2018, 11:00-16:00 (tentative), kick off meeting, ENTSO-E
 - 19 November 2018, 14:00-16:00 (tentative), webinar
 - 17 December 2018, 14:00-16:00 (tentative), webinar

Final dates to be communicated next week

Way forward for Technical Group High Penetration

- Describe individual aspects of grid forming capability
- Describe design/sizing consequences for PE interfaces
- Describe possibilities and limits of grid forming with respect to size of storage and/or current headroom
- Give brief (!) cost indications related to individual or combinations of grid forming capabilities
- Set up benchmarks for evaluation of compliance including testing
- Publish draft for consultation
- Publish final results

Back up slide

Status of work and members' considerations

Status of work:

- Further work on individual grid forming capabilities
- First inputs expected before summer break
- Draft report for stakeholder consultation by end of 2018

Considerations from members:

- Timeline for introduction of new inverter control
- Need cases expected (TSO studies that lead to new requirements regarding control)
- Requirements as performance specification (allowing different implementations and solutions)
- Agreeing to proposed format of final report (joint document)

Back up slide